Abstract

To improve on a vent plug system for a cell opening of a storage battery containing a plug element with an inner cartridge and a valve element, to where it is possible without the need for maintaining excessive physical tolerances to assemble it with a minimal number of components in simple fashion while still assuring reliable operation without any major effort, it is proposed to design the plug element (16) as a cup-shaped unit with an outer contour (18) shaped to fit into, and seal, the cell opening, with an internal cavity (20) and with a gas port (28) between the cavity (20) and the outside surface (24), where the inner cartridge (12) is essentially cylindrical, has an outer contour (36) shaped to permit insertion in the cavity (20) of the plug element (16) and is provided with a gas passage (26) that opens into the cavity (20), while the valve element (14) is a separate element retainable in the cavity (20) by the inner cartridge (12) and, as a function of the gas pressure, establishes a gas-flow connection (22) between the gas passage (26) of the inner cartridge (12) and the gas port (28) of the plug element (16), the inner cartridge (12) and the plug element (16) can be joined in gas-tight fashion, and the inner cartridge (12) features an installation fitting (30) which in the assembled state of the system protrudes at least partially from the cavity (20) of the plug element (16).

(Fig. 1)

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